

# PATENT

Docket No.: 393325

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wherein said non-free radically polymerizable acid is contacted with said polymerizable aqueous emulsion prior to achieving about 95% conversion of said non-ionic monomer.

5           6.           The composition of claim 1 wherein said polymeric acrylate microspheres are hollow.

7.           The composition of claim 1 wherein said crosslinked acrylate polymer has a  $T_g$  of about  $-10^{\circ}\text{C}$  to about  $-50^{\circ}\text{C}$ .

10           8.           The composition of claim 1 wherein said auxiliary ingredients are selected from surfactants, defoaming agents, viscosity modifiers, neutralizing agents, flow control agents, stabilizers or tackifying agents.

15           9.           The composition of claim 8 wherein said aqueous adhesive composition contains at least one surfactant, at least one defoaming agent, at least one viscosity modifier, and at least one neutralizing agent.

20           10.          The composition of claim 1 wherein the polymerized monomers of said polymeric acrylate microspheres comprises (a) about 85 to about 99.5 weight percent of at least one alkyl acrylate or alkyl methacrylate ester of a non-tertiary alcohol, wherein said alkyl group has from 4 to about 14 carbon atoms, and  
25           (b) about 0.5 to about 15 weight percent of an alkali metal, ammonium or amine salt of an acid selected from a monoolefinic monocarboxylic acid, a monoolefinic dicarboxylic acid or mixtures thereof.

30           11.          The composition of any of claims 1, 5, 7 or 10 having dry film peel value of about 0.2 to about 2.5 pounds per inch peel force on stainless steel with adhesive failure mode.

35           12.          An article comprising a face stock material having coated thereon a removable or repositionable, pressure sensitive adhesive composition comprising: (a)

5 wherein the weight ratio of microspheres to crosslinked  
acrylate polymer is about 0.025:1 to about 1.9:1.

10            14.        The article of claim 12 wherein said  
polymeric acrylate microspheres are solid.

15           (a)           contacting a polymerizable aqueous  
emulsion of at least one non-ionic monomer of an alkyl  
acrylate or alkyl methacrylate ester of a non-tertiary  
alcohol and at least one ionic monomer copolymerizable  
with said non-ionic monomer and at least one non-free  
20 radically polymerizable acid; and

wherein said non-free radically polymerizable acid  
25 is contacted with said polymerizable aqueous emulsion  
prior to achieving about 95% conversion of said non-ionic  
monomer.

30            17.        The article of claim 12 wherein said  
crosslinked acrylate polymer has a T<sub>g</sub> of about -10°C to  
about -50°C.

18. The article of claim 12 wherein said  
auxiliary ingredients are selected from surfactants,  
35 defoaming agents, viscosity modifiers, neutralizing

agents, flow control agents, stabilizers or tackifying agents.

19. The article of claim 18 wherein said aqueous adhesive composition contains at least one surfactant, at least one defoaming agent, at least one viscosity modifier, and at least one neutralizing agent.

20. The article of claim 12 wherein the polymerized monomers of said polymeric acrylate microspheres comprises (a) about 85 to about 99.5 weight percent of at least one alkyl acrylate or alkyl methacrylate ester of a non-tertiary alcohol, wherein said alkyl group has from 4 to about 14 carbon atoms, and (b) about 0.5 to about 15 weight percent of an alkali metal, ammonium or amine salt of an acid selected from a monoolefinic monocarboxylic acid, a monoolefinic dicarboxylic acid or mixtures thereof.

21. The article of any of claims 12, 15, 17 or 20 having dry film peel value of about 0.2 to about 2.5 pounds per inch peel force on stainless steel with adhesive failure mode.